

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 1, 9, 13, 20, 21 and 25-27, AMEND claims 3, 4, 7, 12, 14-17, 19, 24 and 29 and DELETE claims 8 and 20 in accordance with the following:

1. (CANCELLED)
2. (PREVIOUSLY PRESENTED) A method of driving a display apparatus, in which a frame comprises n subfields, each subfield has at least an address period to select cells to be displayed and a light period to light the selected cells, and a gradation scale is represented by combining the subfields to be lit among said plural subfields, wherein subfields of B_n brightness and B_{n-1} brightness, when a brightness of said n subfields is assumed to be B_i ($i = 1 - n$; $B_1 \leq B_2 \dots B_{n-1} \leq B_n$), are arranged at an interval of about half a length of said frame, wherein subfields of B_{n-2} brightness and B_{n-3} brightness among said n subfields are arranged at the interval of about half the length of said frame so that each of the subfields of the B_{n-2} brightness and the B_{n-3} brightness is positioned almost at a midpoint between two most brightness-weighted subfields.
3. (CURRENTLY AMENDED) ~~A~~The method of driving a display apparatus, ~~in which a frame comprises n subfields, each subfield has at least an address period to select cells to be displayed and a light period to light the selected cells, and a gradation scale is represented by combining the subfields to be lit among said plural subfields, wherein subfields of B_n brightness and B_{n-1} brightness, when a brightness of said n subfields is assumed to be B_i ($i = 1 - n$; $B_1 \leq B_2 \dots B_{n-1} \leq B_n$), are arranged at an interval of about half a length of said frame, wherein when a rest period occurs in said frame because a total length of said plural subfields is shorter than that of said frame, said rest period is divided into plural rest periods and the divided rest periods are arranged between different plural subfields as set forth in claim 2, wherein when a length of a rest period in said frame is greater than a predetermined value, said frame includes at least two divided rest periods which are obtained by dividing said rest period.~~

4. (CURRENTLY AMENDED) The method of driving a display apparatus as set forth in claim 3, wherein said rest period is divided ~~so that a number of the divided rest periods is equal to that of said plural subfields and provided in each subfield~~ in correspondence with said plural subfield so that a number of the divided rest periods is equal to that of said plural subfields and each divided rest period is arranged in correspondence with the corresponding subfield.

5. (PREVIOUSLY PRESENTED) A method of driving a display apparatus, in which a frame comprises n subfields, each subfield has at least an address period to select cells to be displayed and a light period to light the selected cells, and a gradation scale is represented by combining the subfields to be lit among said plural subfields, wherein subfields of B_n brightness and B_{n-1} brightness, when a brightness of said n subfields is assumed to be B_i ($i = 1 - n$; $B_1 \leq B_2 \dots B_{n-1} \leq B_n$), are arranged at an interval of about half a length of said frame, wherein the brightness of each subfield is determined by a number of lit pulses in said light period, and when a total number of sustain pulses in the frame is varied, an original clock frequency, which generates an execute signal at least either in said address period or in said light period, is varied.

6. (PREVIOUSLY PRESENTED) The method of driving a display apparatus as set forth in claim 5, wherein only the original clock frequency, to generate the execute signal in said light period, is varied to vary a period of sustain pulses to be applied in said light period.

7. (CURRENTLY AMENDED) A method of driving a display apparatus, in which a frame i comprises plural subfields, each subfield has at least an address period to select cells to be displayed and a light period to light the selected cells, and a gradation scale is represented by combining the subfields to be lit among said plural subfields, wherein ~~when a total length of said plural subfields is shorter than that of said frame and a rest period occurs in said frame, said rest period is divided into plural rest periods and arranged between different subfields~~ a length of a rest period in said frame is greater than a predetermined value, said rest period is divided in correspondence with said plural subfield so that a number of the divided rest periods is equal to that of said plural subfields and each divided rest period is arranged in correspondence with the corresponding subfield.

8. (CANCELLED)

9. (CANCELLED)

10. (PREVIOUSLY PRESENTED) A method of driving a display apparatus, in which a frame comprises plural subfields, each subfield has at least an address period to select cells to be displayed and a light period to light the selected cells, and a gradation scale is represented by combining the subfields to be lit among said plural subfields, wherein when a total number of sustain pulses in the frame is varied, an original clock frequency, which generates an execute signal at least either in said address period or said light period, is varied.

11. (PREVIOUSLY PRESENTED) The method of driving a display apparatus as set forth in claim 10, wherein only the original clock frequency, to generate the execute signal in said light period, is varied to vary a period of sustain pulses to be applied in said light period.

12. (CURRENTLY AMENDED) A method of driving a display apparatus, in which a frame comprises plural subfields, each subfield has at least an address period to select cells to be displayed and a light period to light the selected cells, and a gradation scale is represented by combining the subfields to be lit among said plural subfields, wherein plural arrangement orders of said plural subfields in said frame are memorized in accordance with the types of images to be displayed, and display is performed with an arrangement order in said subfield selected from said plural arrangement orders according to judged types of the images.

13. (CANCELLED)

14. (CURRENTLY AMENDED) A display apparatus displaying a gradation scale by a subfield method in which a frame comprises n subfields, each subfield has at least an address period to select cells to be displayed and a light period to light the selected cells, and the gradation scale is represented by combining subfields to be lit among said plural n subfields such that subfields of B_n brightness and B_{n-1} brightness, when a brightness of said n subfields is assumed to be B_i ($i = 1 - n$; $B_1 \leq B_2 \dots B_{n-1} \leq B_n$), are arranged at an interval of about half a length of said frame, wherein subfields of B_{n-2} brightness and B_{n-3} brightness among said n subfields are arranged at the interval of about half the length of said frame so that each of the subfields of the B_{n-2} brightness and the B_{n-3} brightness is positioned almost at a midpoint between two most brightness-weighted subfields.

15. (CURRENTLY AMENDED) ~~A display apparatus displaying a gradation scale by a subfield method in which a frame comprises n subfields, each subfield has at least an address period to select cells to be displayed and a light period to light the selected cells, and the gradation scale is represented by combining subfields to be lit among said plural subfields such that subfields of B_n brightness and B_{n-1} brightness, when a brightness of said n subfields is assumed to be B_i ($i = 1 - n$; $B_1 \leq B_2 \dots B_{n-1} \leq B_n$), are arranged at an interval of about half a length of said frame, wherein when a rest period occurs in said frame because a total length of said plural subfields is shorter than a length of said frame, said rest period is divided into plural rest periods and each of the divided rest periods is arranged between different respective ones of the plural subfields~~ The display apparatus as set forth in claim 14, wherein when a length of a rest period in said frame is greater than a predetermined value, said frame includes at least two divided rest periods which are obtained by dividing said rest period.

16. (CURRENTLY AMENDED) The display apparatus as set forth in claim 15, wherein, ~~said rest period is divided so that a number of the divided rest periods is equal to a number of said plural subfields and provided in each subfield~~ in correspondence with said plural subfields so that a number of the divided rest periods is equal to that of said plural subfields and each divided rest period is arranged in correspondence with the corresponding subfield.

17. (CURRENTLY AMENDED) A display apparatus displaying a gradation scale by a subfield method in which a frame comprises n subfields, each subfield has at least an address period to select cells to be displayed and a light period to light the selected cells, and the gradation scale is represented by combining subfields to be lit among said plural n subfields such that subfields of B_n brightness and B_{n-1} brightness, when a brightness of said n subfields is assumed to be B_i ($i = 1 - n$; $B_1 \leq B_2 \dots B_{n-1} \leq B_n$), are arranged at an interval of about half a length of said frame, wherein the brightness of each subfield is determined by a number of sustain pulses in said light period, and when a total number of lit pulses in the frame is varied, an original clock frequency, which generates an execute signal at least either in said address period or in said light period, is varied.

18. (PREVIOUSLY PRESENTED) The display apparatus as set forth in claim 17, wherein only the original clock frequency, to generate the execute signal in said light period, is varied to vary a period of sustain pulses to be applied in said light period.

19. (CURRENTLY AMENDED) A display apparatus displaying a gradation scale by a subfield method in which a frame comprises plural subfields, each subfield has at least an address period to select cells to be displayed and a light period to light the selected cells, and the gradation scale is represented by combining subfields to be lit among said plural subfields such that when ~~a total length of said plural subfields is shorter than that of said frame and a rest period occurs in said frame, said rest period is divided into plural rest periods and each of the plural rest periods is arranged between different respective ones of the plural subfields~~a length of a rest period in said frame is greater than a predetermined value, said rest period is divided in correspondence with said plural subfields so that a number of the divided rest periods is equal to that of said plural subfields and each divided rest period is arranged in correspondence with the corresponding subfield.

20. (CANCELLED)

21. (CANCELLED)

22. (PREVIOUSLY PRESENTED) A display apparatus displaying a gradation scale by a subfield method in which a frame comprises plural subfields, each subfield has at least an address period to select cells to be displayed and a light period to light the selected cells, and the gradation scale is represented by combining subfields to be lit among said plural subfields such that when a total number of sustain pulses in the frame is varied, an original clock frequency, which generates an execute signal at least either in said address period or said light period, is varied.

23. (PREVIOUSLY PRESENTED) The display apparatus as set forth in claim 22, wherein, only the original clock frequency to generate the execute signal in said light period is varied to vary a period of sustain pulses to be applied in said light period.

24. (CURRENTLY AMENDED) A display apparatus displaying a gradation scale by a subfield method in which a frame comprises plural subfields, each subfield has at least an address period to select cells to be displayed and a light period to light the selected cells, and the gradation scale is represented by combining subfields to be lit among said plural subfields such that plural arrangement orders of said plural subfields in said frame are memorized in accordance with the types of images to be displayed, and display is performed with an arrangement order ~~in said subfield~~ selected from said plural arrangement orders according to the judged types of the images.

25. (CANCELLED)

26. (CANCELLED)

27. (CANCELLED)

Accordingly, it is respectfully submitted that Shigeta neither discloses nor suggests the feature of claims 12 and 24 and, accordingly, withdrawal of the rejection is respectfully requested.

ITEM 8: REJECTION OF CLAIMS 3, 7, 9, 15, 19 AND 21 FOR OBVIOUS OVER SHIGETA IN VIEW OF CORREA ET AL. (USP 6,714,250)

The rejection is respectfully traversed.

Claim 3 is amended to depend from allowable independent claim 2.

Claim 9 has been cancelled.

Claims 15 has been amended to dependent from allowable claim 14.

Claim 21 has been cancelled.

Accordingly, as to claims 3, 9, 15 and 21, the rejection is either moot or overcome, and should be withdrawn.

Claims 7 and 19 are amended to describe a feature that a rest period is divided in correspondence with plural subfields so that a number of divided rest periods is equal to that of the plural subfields and each divided rest period is arranged in correspondence with the corresponding subfield.

None of the cited references discloses or suggests this feature.

Accordingly, it is respectfully submitted that claims 7 and 19 distinguish patentably over the art of record and, accordingly, that the rejection should be withdrawn.

CONCLUSION

In accordance with the foregoing, it is respectfully submitted that all of the pending claims patentably distinguish over the references of record and, there being no other objections or rejections, it is submitted that the application is in condition for allowance, which Action is earnestly solicited.

Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.